

1       Abstract

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3       Systems and methods for generating visual  
4       representations of graphical data and digital  
5       document processing, including:

6           A method of redrawing a visual display of  
7       graphical data whereby a current display is replaced  
8       by an updated display, comprising, in response to a  
9       redraw request, immediately replacing the current  
10      display with a first approximate representation of  
11      the updated display, generating a final updated  
12      display, and replacing the approximate  
13      representation with the final updated display.

14          A method of generating variable visual  
15      representations of graphical data, comprising  
16      dividing said graphical data into a plurality of  
17      bitmap tiles of fixed, predetermined size, storing  
18      said tiles in an indexed array and assembling a  
19      required visual representation of said graphical  
20      data from a selected set of said tiles.

21          A method of processing a digital document, said  
22      document comprising a plurality of graphical objects  
23      arranged on at least one page, comprising dividing  
24      said document into a plurality of zones and, for  
25      each zone, generating a list of objects contained  
26      within and overlapping said zone.

27          Digital document processing systems adapted to  
28      implement the methods.